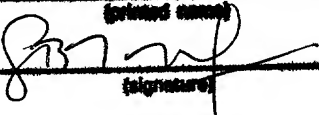


ABSTRACT

5 A digital vibration transducer for producing a digital signal representative of
 a vibration of a vibrating member is provided. The transducer includes a laser
 source producing a light beam that is focused on a detection area. The light beam
 is reflected towards this detection area by a reflector, at an angle with the optical
 axis of the light beam and pivotable about a pivot axis. A linkage assembly
 connects the vibrating member to the reflector to convert the vibrating of the
 10 vibration member into a pivoting of the reflector, thereby sweeping the reflected
 light beam across the detection area. A sensing and encoding assembly is
 provided in the detection area and produces the digital signal representative of the
 vibration of the vibrating member relatively to the sweeping of the light beam.

"Express Mail" mailing label number E1921133815 US
 Date of Deposit Oct 26, 2001
 I hereby certify that this paper or fee is being deposited
 with the United States Postal Service "Express Mail Post
 Office to Addressee" service under 37 CFR 1.10 on the
 date indicated above and is addressed to: Commissioner
 of Patents and Trademarks, Washington, D.C. 20231.
Scott Mann
 (printed name)

 (signature)

1045133815 US
 OCT 26 2001